

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-141229
 (43)Date of publication of application : 20.05.1994

(51)Int.Cl. H04N 5/235
 H04N 5/335

(21)Application number : 04-288508 (71)Applicant : MATSUSHITA ELECTRIC IND CO LTD
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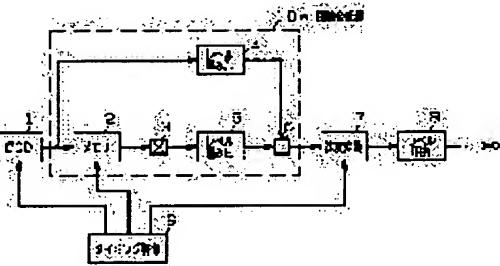
(54) IMAGE PICKING UP AND SYNTHESIZING METHOD AND IMAGE PICKUP DEVICE WITH HIGH DYNAMIC RANGE

(57)Abstract:

PURPOSE: To output an image in which a signal level can be continued by using the image whose S/H can be kept satisfactorily, and performing synthesis smoothly as changing weight at the switching part of the image.

CONSTITUTION: A signal with short charge

accumulation time out of the signals read out from a CCD 1 is recorded on memory 2, and it is read out from the memory 2 at almost the same timing as that when the signal with long charge accumulation time is read out from the CCD 1. A read out signal is multiplied by a constant by using a multiplier 3. Thence, the weight in accordance with the signal level is attached on it by a level weighing means H5. The weight is also attached on the signal with long charge accumulation time by a level weighing means L4. In such a manner, the weight is attached on image signals with different dynamic ranges, and they are added by an adder 6, and are synthesized into one image. A part with satisfactory state of the image is extracted by applying the weight, and the image with high dynamic range can be generated. The scanning speed of a synthesized image is converted so as to conform to the scan of a reference television signal.



LEGAL STATUS

[Date of request for examination] 09.05.1997

[Date of sending the examiner's decision of rejection] 26.10.1999

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3074967

[Date of registration] 09.06.2000

[Number of appeal against examiner's decision] 11-18888

[of rejection]

[Date of requesting appeal against examiner's decision of rejection] 25.11.1999

[Date of extinction of right]

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